

## Supporting Documentation for the Process for Identifying the Projects in the Current Funding Application

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Process for Identifying Projects  
Call for Projects e-mail August 24, 2010

## Rob Swartz

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**Subject:** Inquiry for IRWMP Projects  
**Attachments:** Imp\_PSP\_Final\_07\_20\_10.pdf; ARB IRWMP Project Information Report 23aug10\_distributed.pdf  
**Importance:** High

Hello all,

As you are probably aware, the Regional Water Authority is in the process of updating an Integrated Regional Water Management Plan for the American and Cosumnes River Basins. This will be approximately a 12-18 month effort with significant stakeholder input. In the short term, however, there is an immediate funding opportunity for which we want your input.

The California Department of Water Resources recently released guidelines and an application for grants to implement projects under the Integrated Regional Water Management Program funded through Proposition 84. The Regional Water Authority is considering the feasibility of submitting a regional application, which would be due by January 7,

2011. Because of the complexity of developing a regional application, we need to quickly identify potential projects to evaluate whether we would be strong candidates for funding under the current round of applications.

This is an open call for projects that your organization believes would be competitive for Integrated Regional Water Management funds. I am attaching the DWR funding application, so that you can review it to help make a determination regarding your project. In particular, note the scoring criteria in Table 5, beginning on Page 25. I am also attaching a form that can be used to input information about projects that you would like to be considered as part of a regional application effort. The last page of the form includes a list of DWR preference for this funding round. In general, the IRWM grant program will be looking for a suite of projects that include a broad range of benefits throughout the region. Characteristics of a strong IRWM project include, but are not limited to:

- Meets one or more of regional water objectives (e.g., water supply, water quality, natural resources management, flood/floodplain management, demand management).
- Benefits multiple stakeholders.
- Provides benefits that can be related to the broader region.
- Has broad support.

Overall, the funding program requires a 25% local cost share, which can be through either direct or in-kind match. The specific cost share for an individual project will be determined during the review process when we are evaluating whether to proceed with submitting an application for funding. Finally, there is also a potential reduction of the local cost share requirement for projects that directly benefit a disadvantaged community.

If we decide to proceed, RWA would serve as the lead applicant and would direct the work of a consultant in developing the application. Individual project proponents would be responsible for documenting the information needed to calculate the feasibility, and benefits and costs of a proposed project.

The project input form is a fillable PDF, and should be readily accessible with Adobe Reader. When you have filled out the form, you can send it back to me by clicking the "Submit Form" button at the upper right corner of the form. I just developed this form, and did not have much opportunity to test it. Contact me if you encounter any problems. You are free to submit more than one project for consideration, but you will need to complete a separate form for each one.

In order for us to evaluate whether or not we would have a competitive regional application, we need your information as quickly as possible. We would like forms to be returned to us by **Tuesday, September 7**. This will give us time to begin an initial screening and request any needed additional information. We expect to make a decision on proceeding with an application by the end of September. Finally, we will discuss this opportunity during our September 1<sup>st</sup> combined Planning and Stakeholder Forum that was announced to you all earlier today.

Please feel free to contact me with any questions.

Rob

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Process for Identifying Projects  
List of Stakeholders and Organizations

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Process for Identifying Projects  
Attendees, Presentation, and Project Input Form Discussed at September 1,  
2010 Public Meeting

RWA IRWM September 1, 2010 Public Meeting Attendee List

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Sandy Kozlen	Carmichael WD
Joe Dion	Citrus Heights WD
Rick Bettis	Central Sac County Groundwater Authority
Alta Tura	Sac Area Water Counsel/Laguna Creek Watershed Council
Rob Swartz	RWA
John Woodling	RWA

## American River Basin Integrated Regional Water Management Plan

### Combined Stakeholder and Planning Forum

September 1, 2010

## Forum Overview

- **A Brief Reminder of Where We Have Been**
- **Stakeholder Survey Summary**
- **Process to Update IRWMP**
- **Example of a Collaborative Process**
- **Prop 84 Implementation Grant Application Release**

## *A Brief Reminder of Where We Have Been*

## Highlights of ARB IRWMP

- Initial IRWM adopted May 2006
- “Living document” to be updated in future
- Projects organized by IRWM objectives
- Project priorities based on State guidelines for regional and statewide priorities
- Included over 180 projects/programs
- At least 30 different groups with projects identified
- Not a funding mechanism specifically, but a vehicle for stakeholders to pursue funding opportunities or partnerships as a group or on their own

## IRWM Relation to Other Plans

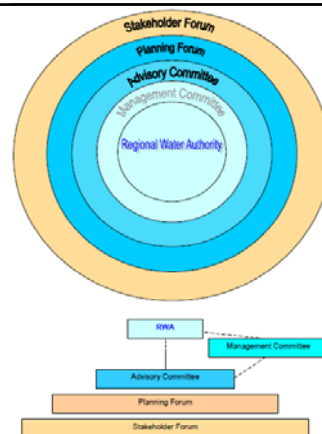
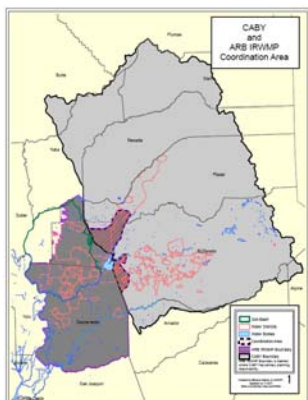
- Not meant to supplant need for, or authority for, other planning
- Not meant to fully capture all aspects of other planning efforts
- Needs other plan developers to provide information as to what is relevant to include in the IRWM
- Hopefully, will begin to drive more integrated thinking as other plans are developed in future

## Improvements & Updates

- Additional stakeholder outreach
- Upper/Lower basin coordination
- Additional project inclusion & evaluation
- Governance structure
- Incorporate Prop 84 requirements:
  - Region Acceptance Process
  - Objectives – broaden and make more quantitative
  - Climate change
  - Flood management
  - Consistency with CA Water Plan’s Resource Mgmt Strategies

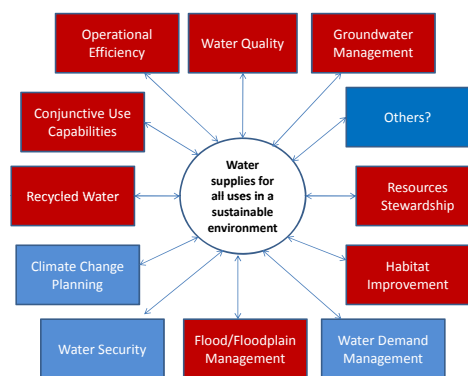
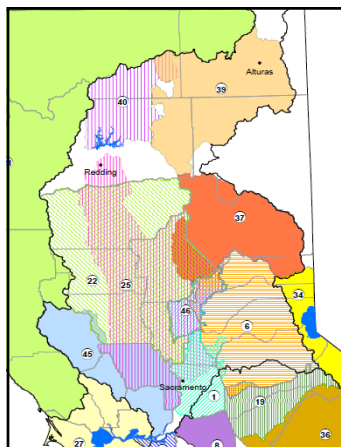
## ARB and CABY IRWMP Boundaries

MOU signed 2009



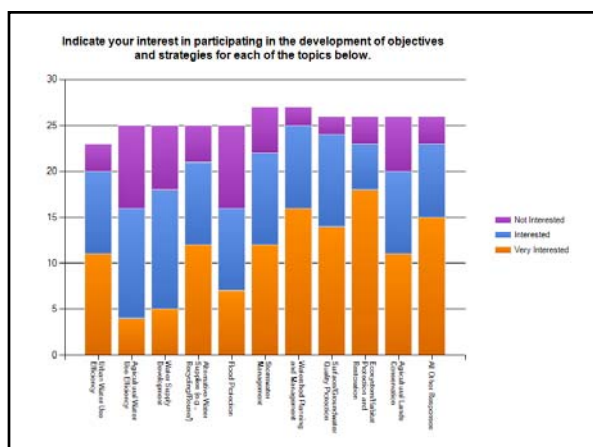
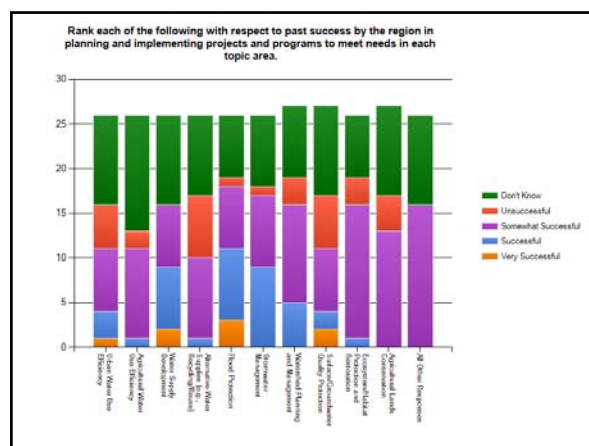
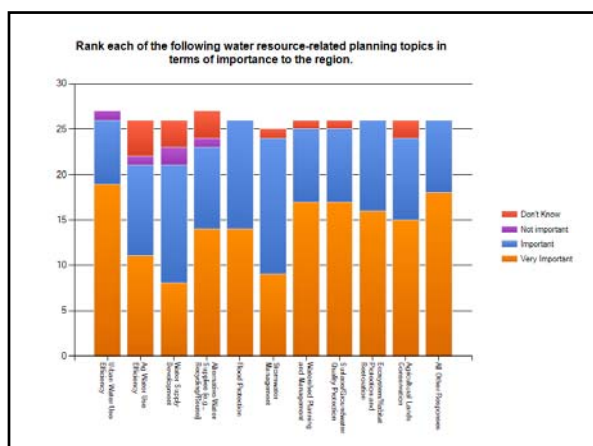
## Region Acceptance Process

- 46 IRWM Regions Statewide
- Sac River Region has
  - Seven approved regions
  - Two conditionally approved regions



## Stakeholder Survey Summary

- 29 Responses (~30% response rate)
- Identified seven new stakeholders
- Appears to be a lot of interest in most topics



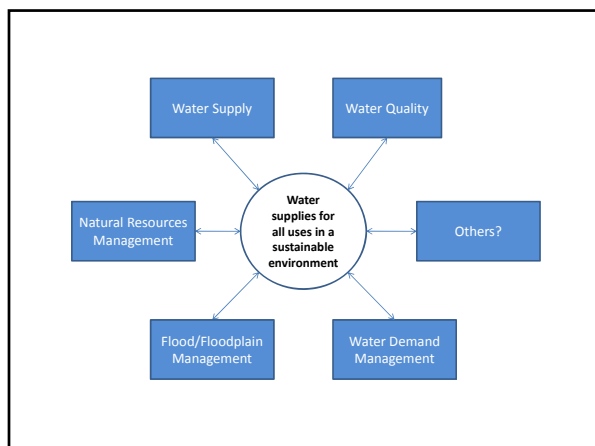
## The ARB IRWM Plan Update Process

### Update Overview

- ~18-month process
- Recently secured funding from USBR to commence effort
- Will apply to DWR at end of month through Prop 84 planning grant program

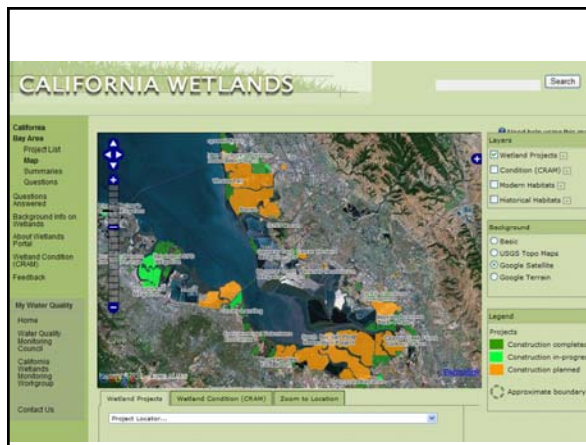
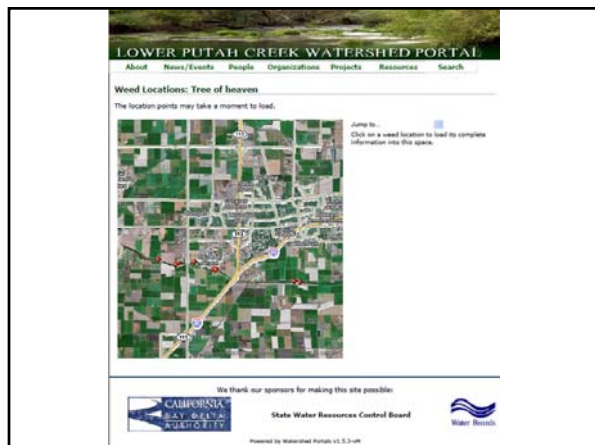
### Update Overview (continued)

- Continue to develop objectives and goals
- Develop a web-based IRWM interface
- Comprehensive update of projects
  - [Project Input Form](#)
- Other
  - Plan for identifying issues with disadvantaged communities
  - Assess potential impacts of climate change



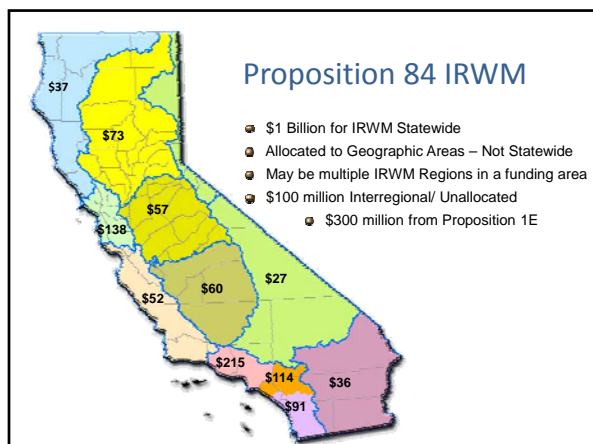
### Potential Areas to Establish Goals

<b>Water Supply</b> <input type="checkbox"/> Surface Water Facilities <input type="checkbox"/> Groundwater Facilities <input type="checkbox"/> Interties/Transfers <input type="checkbox"/> Water Recycling <input type="checkbox"/> Water Reuse	<b>Water Quality</b> <input type="checkbox"/> Pollution Prevention <input type="checkbox"/> Water and Wastewater Treatment <input type="checkbox"/> Salt/Salinity Management <input type="checkbox"/> Urban Runoff Management <input type="checkbox"/> Groundwater Remediation	<b>Natural Resources Mgmt</b> <input type="checkbox"/> Ecosystem Restoration <input type="checkbox"/> Environmental and Habitat Protection <input type="checkbox"/> Watershed Management <input type="checkbox"/> Ag Lands Stewardship
<b>Flood/Floodplain Mgmt</b> <input type="checkbox"/> Stormwater Management <input type="checkbox"/> Flood Management	<b>Water Demand Mgmt</b> <input type="checkbox"/> Urban Water Use Efficiency <input type="checkbox"/> Agricultural Water Use Efficiency	<b>Other</b> <input type="checkbox"/> Land Use Planning <input type="checkbox"/> Climate Change Mitigation <input type="checkbox"/> Recreation and Public Access <input type="checkbox"/> Water Security



*Multi-Objective Collaborative  
Process in Upper Laguna Creek*

*Prop 84 Implementation Grant  
Application Release*



### Implementation Grant Guidelines

- Applications due January 7, 2011
- Cap for any given IRWM in Sac River funding area set at \$16.2 million
  - Funds are not currently appropriated
  - Projects would need to be phased
- 25% local share required

### DWR Ranking Criteria

Total of 85 points possible

- Work Plan – 15 points
- Budget – 5 points
- Schedule – 5 points
- Monitoring, Assessment, Performance – 5 points
- Water Supply Benefits – 15 points
- Water Quality and Other Benefits – 15 points
- Flood Damage Reduction – 15 points
- “Program” Preferences – 10 points

### Other Guideline Info

- Assume award date of June 1, 2011
- Eligible local share may date back to September 30, 2008
- UWMP Compliance
- AB1420 Compliance
- Meter Compliance
- Labor Code Compliance
- Monitoring Requirements for WQ Projects
- **Advance Funds cannot be Provided**

### Call for Project Information

- Project Input Form
  - Revised in August 2010 specifically to capture information relevant to Prop 84 Implementation Grant opportunity
  - [Fillable PDF](#)
  - Return to RWA by September 7.

### Next Steps

- RWA to evaluate the overall response to call for projects
- To IRWM management committee for initial authorization to proceed with application
- Convene IRWM advisory committee to approve process of evaluating and prioritizing projects
- To RWA Executive Committee to authorize preparing application and hiring consultant to prepare application



### Additional Information

ARB IRWMP available on-line at:

[www.rwah2o.org/rwa/programs/irwmp/](http://www.rwah2o.org/rwa/programs/irwmp/)

**or**

Contact Rob Swartz (RWA) at:

[rswartz@rwah2o.org](mailto:rswartz@rwah2o.org)

(916) 967-7692

## ARB IRWMP Project Information Form

Project Name			
Agency/Organization			
Contact Person		Title	
E-Mail Address		Phone Number	
Partners			
Project Location			
Project Description:			
Primary IRWMP Objective:		Primary Project Type:	

**ARB Priority Management Objectives** This section will be used to characterize whether your project potentially meets multiple planning objectives. Check all that apply.

### Water Supply

- ☐ Surface Water Facilities
- ☐ Groundwater Facilities
- ☐ Interties/Transfers
- ☐ Water Recycling
- ☐ Water Reuse

### Flood/Floodplain Mgmt

- ☐ Stormwater Management
- ☐ Flood Management

### Water Quality

- ☐ Pollution Prevention
- ☐ Water and Wastewater Treatment
- ☐ Salt/Salinity Management
- ☐ Urban Runoff Management
- ☐ Groundwater Remediation

### Water Demand Mgmt

- ☐ Urban Water Use Efficiency
- ☐ Agricultural Water Use Efficiency

### Natural Resources Mgmt

- ☐ Ecosystem Restoration
- ☐ Environmental and Habitat Protection
- ☐ Watershed Management
- ☐ Ag Lands Stewardship

### Other

- ☐ Land Use Planning
- ☐ Climate Change Mitigation
- ☐ Recreation and Public Access
- ☐ Water Security

## ARB IRWMP Project Information Form

### Project Benefits

Please describe the expected benefits of your project. Provide quantifiable information where possible.

Does the project have any expected water supply benefits?

☐ Yes ☐ No

If yes, explain:

Does the project have any expected water quality benefits?

☐ Yes ☐ No

If yes, explain:

Does the project have any expected flood or floodplain management benefits?

☐ Yes ☐ No

If yes, explain:

Does the project have any expected natural resource management benefits?

☐ Yes ☐ No

If yes, explain:

Does the project have any expected demand management benefits?

☐ Yes ☐ No

If yes, explain:

Describe what you believe are any other benefits of this project.

### Project Environmental Information

Describe any expected environmental work needed for the project (CEQA, NEPA, etc.).

Is required environmental work completed?

☐ Yes ☐ No

Describe any expected permits required for the project.

# ARB IRWMP Project Information Form

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## Project Funding

Please provide an estimate for each of the items below.

What is the Total Estimated Cost (TEC) of your project?

How much of the TEC is expected to be from local cost match or in kind contributions?

How much of the TEC is funded through existing grants?

How much of the TEC is currently unfunded?

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## Project Schedule Information

Today's Date

Project Phase: Select the option that best describes the current status of your project.

Project Commencement: (Check the condition that applies.)

- ☐ Already started
- ☐ Expected to commence within 1 year
- ☐ Expected to commence between 1 to 2 years from now
- ☐ Expected to commence greater than 2 years from now

Project Completion: (Check the condition that applies.)

- ☐ Could be completed within 1 year
- ☐ Could be completed between 1 to 2 years from now
- ☐ Likely to be completed greater than 2 years from now

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## Local Planning Documents

Are there local planning documents that support your project? If so, what are they?

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## Stakeholder Involvement and Coordination

Describe any past or expected interaction with stakeholder groups regarding your project?

## ***ARB IRWMP Project Information Form***

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### **DWR Prop 84 Statewide Priorities**

This section lists priorities specific to funding opportunities through the Department of Water Resources' Proposition 84 Implementation Grant Program. Check all that apply

- ☐ Effectively Address Long-Term Drought Preparedness
  - ☐ Use and Reuse Water More Efficiently
  - ☐ Address Key Climate Change Issues
  - ☐ Expand Environmental Stewardship
  - ☐ Practice Integrated Flood Management
  - ☐ Protect Surface Water and Groundwater Quality
  - ☐ Improve Tribal Water and Natural Resources
  - ☐ Ensure Equitable Distribution of Benefits - Benefits to Disadvantaged Communities
-

Process for Identifying Projects  
Consideration for Evaluating Projects

**Factors used in determining projects to be included in a regional implementation grant application for Proposition 84 funding for the American River Basin IRWMP**

**Primary Factors**

1. The degree to which a project contributes to the regional application in the following priority areas (identified in scoring criteria):
  - a. Water supply benefits
  - b. Water quality and other expected benefits. Also includes ecosystem restoration, recreation and public access, and power cost savings.
  - c. Flood damage reduction benefits
  - d. Program preferences
    - i. Effectively address long-term drought preparedness
    - ii. Use and reuse water more efficiently
    - iii. Address key climate change issues
    - iv. Expand environmental stewardship
    - v. Practice integrated flood management
    - vi. Protect surface water and groundwater quality
    - vii. Improve tribal water and natural resources
    - viii. Ensure equitable distribution of benefits – disadvantaged communities
2. The project costs relative to benefits. Do the quantifiable (and non-quantifiable) benefits exceed the costs?
3. The demonstrated capacity to finance the project. This is important as grants are reimbursed in arrears. This would include consideration of how much grant share is required to make the project feasible. For example, any given project requiring a \$10 million grant share to be feasible could be problematic given the limited funding available and the desire to benefit as many integrated projects as possible.
4. The demonstrated technical feasibility of the proposed project, including institutional issues such as permits, CEQA, land access or acquisition, authority to conduct the work, etc.
5. For urban water suppliers (greater than 3,000 connections or 3,000 acre-feet of supply), they must demonstrate compliance (or submit a plan for compliance) with urban water conservation best management practices and demonstrate compliance with meter installation regulations.
6. All participants must be willing to comply with Department of Industrial Relations Labor Compliance Program requirements for construction activities if awarded funding.

**Other Factors**

1. A key review criterion is the quality of the work plan. While there are no specific minimum stated requirements, the work plan section calls for descriptions of the following:
  - a. Percent of design complete.
  - b. Work completed or expected to be completed prior to grant award date.
  - c. Studies completed that support the project.
  - d. Status of acquisition of land or rights-of-way.
  - e. Necessary permits and status of securing permits.
  - f. Copies of any completed plans and specifications.

Because the work plan is an important tool for application evaluators to determine project feasibility, these elements may be used in determining projects that would be included in the regional application.

2. Preferable to distribute funds around the American River Basin IRWMP region.

3. Preferable to distribute funds throughout the IRWMP objective areas: water supply; water quality; flood/floodplain management; water demand management; natural resources management; other.
4. Preferable to distribute funds to broad group of stakeholders.
5. Preferable to limit the number of pilot-scale projects.
6. Preferable to not fund purely feasibility-level studies.
7. Preferable to not fund monitoring activities. While not specifically excluded, monitoring would have to demonstrate how it benefits the IRWMP objectives and should not be for required monitoring activities. Project performance monitoring should be built into operations and maintenance costs of a project.



Process for Identifying Projects  
Initial Project Rankings

## Initial Tier Rankings of Projects Submitted to ARB IRWM for Prop 84 Funding Application

Organization	Recommended Tier	Project Name	Project Description
City of Roseville	1	ASR Well Installation	The proposed project is to install well equipment for Hayden Park Well as part of the City's Aquifer Storage and Recovery (ASR) project.
City of Roseville	1	ASR Well Installation	The proposed project is to install well equipment for West Park Well #1 as part of the City's Aquifer Storage and Recovery (ASR) project.
City of Roseville and Dry Creek Conservancy	1	Secret Ravine Fish Passage Improvement Project	This project restores natural channel and floodplain function and increases channel capacity by removing a bridge and pipelines, recontouring stream banks, and adding logs and boulder structures that mimic nature. The barrier removal will provide access to approximately 10 miles of potential spawning and rearing habitat upstream of the project site.
City of Sacramento	1	E. A. Fairbairn Groundwater Well	Construct a groundwater well at the Fairbairn Water Treatment Plant and implement conjunctive use operations.
City of Sacramento	1	Shasta Park Reservoir and Well Project	Project includes acquisition of property, a groundwater well, a four million gallon reservoir, and booster pump station.
Placer County Flood Control and Water Conservation District and Placer County Water Agency	1	Antelope Creek Water Efficiency and Flood Control Improvement Project	This is a multi-objective water efficiency and regional flood control improvement project proposed within the Dry Creek Watershed area of the American River Basin. This project includes the first phase of a two-phase project. The first phase would include the concrete gunite lining of Antelope Canal and the construction of one (in a future series of two) on-channel flood control weirs on Antelope Creek. Lining of the Caperton Canal and construction of the second weir on Antelope Creek would occur in the second phase.
Placer County Water Agency	1	Sunset Industrial Reclaimed Water Supply	This project will deliver reclaimed water for industrial applications into an area where customers are currently supplied from treated surface water sources. Current planning is to connect to the City of Lincoln's distribution system at the northwest corner of the Sunset Industrial Area and extend a pipeline to the Rio Bravo Power Plant, which currently consumes 133 million gallons (over 400 acre-feet) per year.
RWA Water Efficiency Program	1	Regional Implementation of Water Efficiency Best Management Practices	The project will implement on a regional basis: 1) direct installs of high efficiency toilets to disadvantaged customers; 2) outdoor landscape audits and improvement measures; 3) installation of residential water meters.
Sacramento Regional County Sanitation District (SRCSD)	1	Recycled Water for the SMUD Co-Generation Facility & Nearby Areas in the City of Sacramento	This Project consists of the construction of recycled water treatment facilities at the SRCSD Sacramento Regional Wastewater Treatment Plant (SRWTP), transmission pipelines, storage tanks, and booster pumps to provide recycled water from the SRWTP for use in the SMUD Cogeneration Facility, which is located near the Campbell Soup Plant. This project also includes providing connection points for potential expansion of recycled water service in nearby City areas. The recycled water will replace approximately 1,000 acre-feet of surface water per year currently provided by the City to SMUD.
Sacramento Suburban Water District	1	North Antelope PRV Booster Pump Station	This project will construct a booster pump to provide for the reversal of flow in the Antelope and Cooperative Transmission pipeline thereby allowing Sacramento Suburban Water District to export conserved and excess groundwater to the other agencies connected to the pipeline.
Sacramento Suburban Water District	1	Coyle Avenue Pump Station and Treatment	The project is to construct a new production well in SSWD's north service area. The production well will replace existing groundwater extraction wells with secondary water quality issues and located east of the region-wide groundwater cone of depression.
Save Auburn Ravine Salmon and Steelhead (SARSAS)	1	Fish Screen for Pleasant Grove Canal on Auburn Ravine	The project consists of installing fish screens in the backwater of the Aitken Dam at the entrance to the Pleasant Grove Canal that would prevent salmon and steelhead from being drawn into the canal and subsequently being lost in the agricultural fields.
East Sacramento County Water Alliance	2	East Sacramento County Water Management Project	The Alliance comprises the Sacramento County Water Agency, the City of Folsom, Golden State Water Company, GenCorp and The Boeing Company. The project would provide water supplies within the Alliance service areas through recapture of remediated groundwater.
Sacramento Area Flood Control Agency	2	AQUATIC AND RIPARIAN HABITAT ENHANCEMENT IN THE LOWER AMERICAN RIVER AT RIVER MILE 0.5R	The project has been developed to increase the frequency of flooded habitat available for fish in the American and Sacramento Rivers during the spring and winter and to provide improved riparian habitat for birds and other wildlife species. These enhancements would be achieved by lowering and re-grading the over-steepened river bank at the site and improving the quality of the upland habitat on the adjacent elevated floodplain. Grading and planting activities would occur in two phases over two construction seasons.
Water Forum	2	Lower American River Ecosystem Enhancement Decision Support Tool	The project will collect additional valuable data and produce physical and ecological models combined with existing data into a Decision Support Tool (DST) for identification and prioritization of ecosystem enhancement opportunities.

## Initial Tier Rankings of Projects Submitted to ARB IRWM for Prop 84 Funding Application

Water Forum	2	Lower American River Gravel Augmentation and Side Channel Enhancement	We need a continuing program of gravel additions and side channel habitat creation to restore and maintain the natural river processes that have been diminished with flow regulation and the blockage of an upstream coarse sediment source. There are 14 priority side channel improvement locations and 2 priority gravel augmentation locations.
Water Forum	2	Carmichael Creek Restoration Project	The project reach of Carmichael Creek would be rehabilitated/restored to a naturally functioning channel. Restoration of the channel could provide measurable ecological and water quality benefits with improved connectivity and peak flow attenuation. Up to 4,000 feet of channel would be restored with up to 18 acres of associated riparian habitat.
Ducks Unlimited	2	Lower Cosumnes River Floodplain Restoration Project	The project will include levee breaching, re-creating historic sloughs and off-channel wetlands, and installing fish screens on existing water intake structures. The project will result in 90 acres of additional floodplain, riparian forest habitat and juvenile salmon rearing habitat.
Omochumne-Hartnell Water District, Rancho Murieta Community Service District	2	OHWD/Rancho Murieta Groundwater Recharge Project	Develop a conjunctive use project on the Cosumnes River. Construct a 90-acre spreading basin adjacent to the Cosumnes River and recharge groundwater with up to 4,000 AF/year of RMCS D surface water. Construct groundwater facilities for RMCS D to recover water in dry years.
The Nature Conservancy	2	Cosumnes River Floodplain and Riparian Restoration	The project will use engineered levee breaches and grading to reconnect the river to 600 acres of floodplain. The project includes monitoring and exploring using the restored area to serve as marketable carbon credits.
City of Elk Grove	3	Groundwater Recharge Feasibility Project	In the feasibility phase, ten 35-50 foot deep cores will be drilled in existing detention basin throughout the City. Based on the soil types identified, estimates would be made of the likely infiltration rates of each basin. If the soil cores suggest infiltration rate, a percolation test will be performed. A preliminary study of 7 soil cores that were drilled at problematic sites around the City showed that 2 or about 30% of the sites would be appropriate for dry well installation. Project would result in 30% design level for future project.
City of Elk Grove	3	Sleepy Hollow Detention Basin Retrofit	Modify an existing 5+ acre flood detention basin using low impact development techniques such as the development of perennial channels to treat summer irrigation flows, seasonal wetland areas to treat large storm flows and winter runoff, habitat heterogeneity through creation of riparian clusters and habitat mounds. Dry well feasibility will also be assessed.
City of Folsom	3	City of Folsom Water System Optimization Project	Implement a variety of system efficiency and conservation measures to save approximately 5,000 to 10,000 afy which is approximately 15 to 30 percent of its total water supplies.
City of Roseville - Department of Public Works	3	Riverside Stream Restoration and Flood Control Project	The Riverside Stream Restoration and Flood Control Project is located within the City of Roseville, on the east side of Riverside Avenue Bridge across Dry Creek. The Project provides flood control, riparian habitat restoration, and parking lot improvements.
City of Sacramento and Capitol Area Development Authority	3	Urban Runoff Management and Low Impact Development (LID) feasibility for the Sacramento Area	As part of redevelopment of the 16th Street corridor, the project will install stormwater planters with drought tolerant plants to capture and treat urban runoff prior to entering the City's stormwater drainage system.
Mission Oaks Rec and Park District	3	Chicken Ranch Slough Nature Education Facility	Construct an outdoor nature education facility at Mission Oak Park. Realign Chicken Ranch Slough, capture and treat stormwater runoff, create wetland and upland habitat areas and demonstration gardens of native plants.
Sacramento County Water Agency	3	Vineyard Surface Water Treatment Plant, Phase 1	This project will complete construction of the initial 50 MGD of a surface water treatment plant. Ultimately, the WTP will expand to 100 MGD. The WTP will greatly enhance SCWA's capability of implementing conjunctive use operations in the central portion of the County.
CA Association of Resource Conservation Districts	4	Sprinkler Adjustment Campaign	5 interns will be hired for a summer job to accomplish an outreach program in Elk Grove. The interns will design an outreach campaign to reach local after school programs, environmental classes, environmental clubs in their schools, and other relevant outlets. In addition, the interns will go door-to-door to distribute materials to residents and complete one-on-one consultations with homeowners. Liability prevents the actual adjustments from being performed, but step-by-step instructions will be provided along with advice on which sprinklers are in need of adjustment. If possible, sprinkler repair parts will be distributed as part of the adjustments.
CA Association of Resource Conservation Districts	4	Agricultural Water Efficiency Workshops	3 agricultural water efficiency workshops will be held in the Cosumnes Watershed to encourage the adoption of the latest techniques for reducing water consumption in agricultural production. Methods such as the water-bomb method of crop water needs assessment, pond management, Evapo-transpiration devices, and Evapo-transpiration estimations are possible topics.

## Initial Tier Rankings of Projects Submitted to ARB IRWM for Prop 84 Funding Application

CA Association of Resource Conservation Districts	4	Outdoor Water Efficiency Audits	Yard audits will be conducted in Sacramento County that will assess at least 40 rural residential properties for water use efficiency, habitat value, soil integrity, storm water pollution, and fire risk. Recommendations will be made to property owners that will include simple, cost effective ways to reduce the negative factors on their properties including native and fire resistant plants, rain gardens, water harvesting equipment, defensible space requirements, and storm water pollution best management practices.
CA Association of Resource Conservation Districts	4	Grey Water Demonstration Project	5 demonstration greywater tanks will be installed on rural residential properties within the Cosumnes Watershed in order to demonstrate the benefits of greywater and troubleshoot methods of installation for wider watershed application.
CA Association of Resource Conservation Districts	4	Native Plant/ Water Efficient/ Storm Water Pollution Prevention Demonstration Gardens	At least 3 native plant demonstration gardens will be installed on public and private lands within Elk Grove. The gardens will demonstrate water efficient landscaping by installing rain gardens, turf alternatives, native plant gardens, and other appropriate water conservation landscaping techniques. Storm water pollution prevention methods will also be demonstrated.
City of Elk Grove	4	Feasibility and Design of a Multi-Functional Corridor for Elk Grove Creek	The project will study and design a multi-function corridor on Elk Grove Creek. Will result in 30% design and specifications for future project.
City of Elk Grove	4	Laguna Creek/Whitehouse Creek Multi-Functional Corridor Enhancement Project	The project will study and design a multi-function corridor on Laguna Creek/Whitehouse Creek. Will result in 30% design and specifications for future project.
City of Elk Grove	4	City of Elk Grove Rain Garden	This project will construct a creatively designed and aesthetically pleasing outdoor plaza that integrates the principles of LID and river friendly landscaping techniques such as rain gardens, biofiltration swales and pervious paving systems and by minimi
City of Roseville	4	Municipal Well Destruction	Project to destroy the Church Street Well and Pacific Street Well that are no longer in service. The Pacific Street Well had significant contamination of tetrachloroethylene (PCE) and trichloroethylene (TCE) above regulatory standards and the Church Street Well had detection of PCE and TCE.
City of Sacramento	4	Flood Damage Risk Reduction for 5641 Johns Dr. (Drainage Basin 26)	Construction of 1) Replace 1240 feet of existing 36" pipeline with 54" RCP; 2) Add detention basin at Executive Airport; 3) Add 220 feet of 36" RCP.
City of Sacramento	4	Flood Damage Risk Reduction for 5856 Ortega St. (Drainage Basin 8)	Construction of pipelines: 1) Replace 250 feet of existing 30" pipeline with 48" RCP; 2) Add 200 feet of 36" RCP.
County of Sacramento Environmental Management Dept.	4	County of Sacramento Abandoned Well Destruction/Groundwater Protection Fund	The proposed project is to establish a fund to assist qualifying well/property owners in funding the proper destruction of abandoned wells identified by EMD. Grant funds are anticipated to be used as a partial offset of well destruction costs with a to-be-determined portion funded by the well owners. At an average cost of \$5,000.00 to properly destroy a well, including permits, a desirable goal is to provide 50% matching funds to enable proper destruction of 200 abandoned wells within Sacramento County, a cost of approximately \$500,000.
El Dorado Irrigation District	4	Implementation of Water Conservation Best Management Practices	Implementation of various Best Management Practices (BMP) of California Urban Water Conservation Council.
Sacramento County Water Agency	4	Groundwater Recharge Investigation of Aerojet/Boeing Groundwater Extraction and Treatment Facilities	Contaminated groundwater is pumped and treated using various types of treatment systems installed by Aerojet and former McDonnell-Douglas Corporation at 9 groundwater extraction and treatment (GET) facilities located in eastern Sacramento County. This project undertake an assessment of the contribution of these GETs to the groundwater aquifer and to establish the benefit to water supply. In addition, the assessment will conceptualize the infiltration enhancement opportunities.
Sacramento County, Department of Engineering	4	Orange Ave. Infrastructure Construction Project	Phase 2: Construct complete street and underground wet utility (sewer, water drainage) improvements to Orange Ave. from Hwy 99 east to Stockton Blvd. Complete Street improvements include: separated sidewalk, landscape strip using River Friendly Landscape Guidelines designed to capture and filter stormwater runoff. Street improvements would include greenstreet stormwater improvements where feasible, paving and bike lanes.
Sacramento County, Department of Engineering	4	Orange Avenue Infrastructure Design Project - Phase 1	Phase 1: Conduct "project-level" infrastructure studies for sewer, water supply and drainage facilities. Cost out improvements. Complete any needed CEQA work, although this project is likely exempt. Design construction-level improvement plans for: complete street improvements, sewer, water supply and drainage facilities along Orange Ave., with connections to adjacent properties.
Sacramento Regional County Sanitation District (SRCSD) / Sacramento County Water Agency (SCWA)	4	Phase II Recycled Water Transmission Main and Associated Facilities	The project consists of the construction of a 24-inch backbone transmission pipeline, storage tanks, and booster pumps to provide recycled water for landscape irrigation in the East Franklin Specific Plan (EFSP) and Laguna Ridge Specific Plan 2 (LRSP) areas of the City of Elk Grove (City). Recycled water will come from an expansion of the SRWTP Water Reclamation Facility (WRF) owned and operated by SRCSD.

Process for Identifying Projects  
Project Recommendations e-mail from April 5, 2011

## Leslie Dumas

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**From:** Rob Swartz [rswartz@rwah2o.org]  
**Sent:** Tuesday, April 12, 2011 5:25 PM  
**To:** Leslie Dumas  
**Subject:** FW: IRWMP Project Vetting  
**Attachments:** PCFCWCD\_PCWA Antelope Ck.pdf; Sacto Sewer Upsizing.pdf; SAFCA Unionhouse Ck.pdf  
**Categories:** Red Category

Dear Ms. Dumas:

On April 5, 2011, I sent the message below (and attached) to the list of stakeholders involved in the American River Basin IRWMP to ensure they have been fully vetted with the ARB Region. We received one comment from the CABY IRWM Region (adjacent to ours and an ARBN IRWMP stakeholder) that the projects were consistent with their plan as well. No other comments were received. As these projects are consistent with the ARB IRWMP and they have been vetted, we consider them to be incorporated into the ARB IRWMP.

Please feel free to contact me with any questions.

Robert J. Swartz, PG, CHG  
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Sacramento Groundwater Authority  
5620 Birdcage Street, Suite 180  
Citrus Heights, CA 95610  
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**From:** Rob Swartz

**Sent:** Tuesday, April 05, 2011 9:41 AM

**Subject:** IRWMP Project Vetting

Hello all,

As we continue on the path to updating the American River Basin Integrated Regional Water Management Plan (ARB IRWMP) during 2011 and 2012, periodic funding opportunities will arise that individual stakeholder groups will pursue on their own or as a group. One such opportunity is with the Department of Water Resources' (DWR) Prop 1E Stormwater Management Grant Program. The first round of applications is due on April 15, 2011. The application for these funds requires that a project either be part of an existing IRWMP or that it demonstrate that it has been vetted with the regional stakeholders.

I have been approached by proponents for three projects that intend to pursue funding and would like to vet their projects through the ARB IRWMP stakeholders. At the direction of DWR, each project proponent is filing its own grant application. These projects include:

1. Placer County Flood Control & Water Conservation District and Placer County Water Agency – Antelope Creek Improvement Project.
2. City of Sacramento – Downtown Sewer Upsizing Project.
3. Sacramento Area Flood Control Agency – Unionhouse Creek Improvement Project.

I am attaching a summary of each project for your information. If you have any questions or comments on any of these projects, please contact me by **Tuesday, April 12, 2011**.

Rob

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## Antelope Creek Improvement Project

Proponent: Placer County Flood Control and Water Conservation District and Placer County Water Agency

Total Project Cost: \$5,839,747

Grant Funding Request: \$2,906,040

The Antelope Creek Improvement Project is a collaboration between Placer County Water Agency (PCWA) and Placer County Flood Control and Water Conservation District (District). This multi-objective regional flood control, water supply and water quality improvement project is located within the Dry Creek Watershed area of the American River Basin and will be completed in three phases. The project will meet multiple planning objectives by improving water supply and water quality, increasing flood protection, restoring local ecosystems and expanding an existing public recreation corridor.

Phases 1 and 2 of this multi-purpose effort include a regional flood control project on Antelope Creek, a major tributary of the larger Dry Creek. Through the design and construction of two on-channel weirs along an existing open space-protected reach of the creek, the project will provide flood control and flood damage reduction benefits to repeatedly damaged areas of downtown Roseville. The project will reduce peak flood flows over a wide range of flood events, improve the timing of flood flows, enhance existing riparian corridor ecosystems, and improve water quality through groundwater recharge and the natural treatment of temporarily-stored flood waters within the floodplain. Both ecosystem restoration and public recreational opportunities will be enhanced wherever possible within the floodplain of Antelope Creek, which currently includes a multi-purpose public trail system. In-stream improvements will include bank re-contouring to ensure overbank flows, specific habitat enhancements for fisheries, removal of invasive plant species and replanting with natives. An interpretive trail sign system and a public trailhead/community node are also proposed to improve access to the multi-purpose trail system while helping to educate the public on the project.

The Antelope Creek Improvement Project also includes improvements to the upstream Clover Valley Reservoir (Phase 3), which regulates water deliveries in the lower Antelope Canal and Creek and is operated by PCWA. The unlined portion of the Antelope Canal, near the Union Pacific Railroad track crossing, feeds the reservoir and has experienced severe erosion and down-cutting causing the reservoir to become silted and impairing the reservoir capacity. This phase of the project will construct a pipeline to convey the water from the Antelope Canal to the reservoir to reduce or eliminate erosion, and will include dredging of the reservoir to remove existing sediment and silt, restoring reservoir capacity and improving water quality both in the reservoir and in the downstream Clover Valley Creek and Antelope Creek.



*Project Benefits:*

- Provide regional flood control benefits to critically impacted areas of Roseville and unincorporated Placer County.
- Improve an existing recreational corridor.
- Improve water quality in Clover Valley Reservoir, Clover Valley Creek and Antelope Creek.
- Reduce sedimentation in Clover Valley Reservoir and in downstream reaches of Clover Valley Creek and Antelope Creek.
- Restore riparian corridor and floodplain habitat.
- Improve recreational opportunities for the community.
- Increase PCWA water system operational stability.

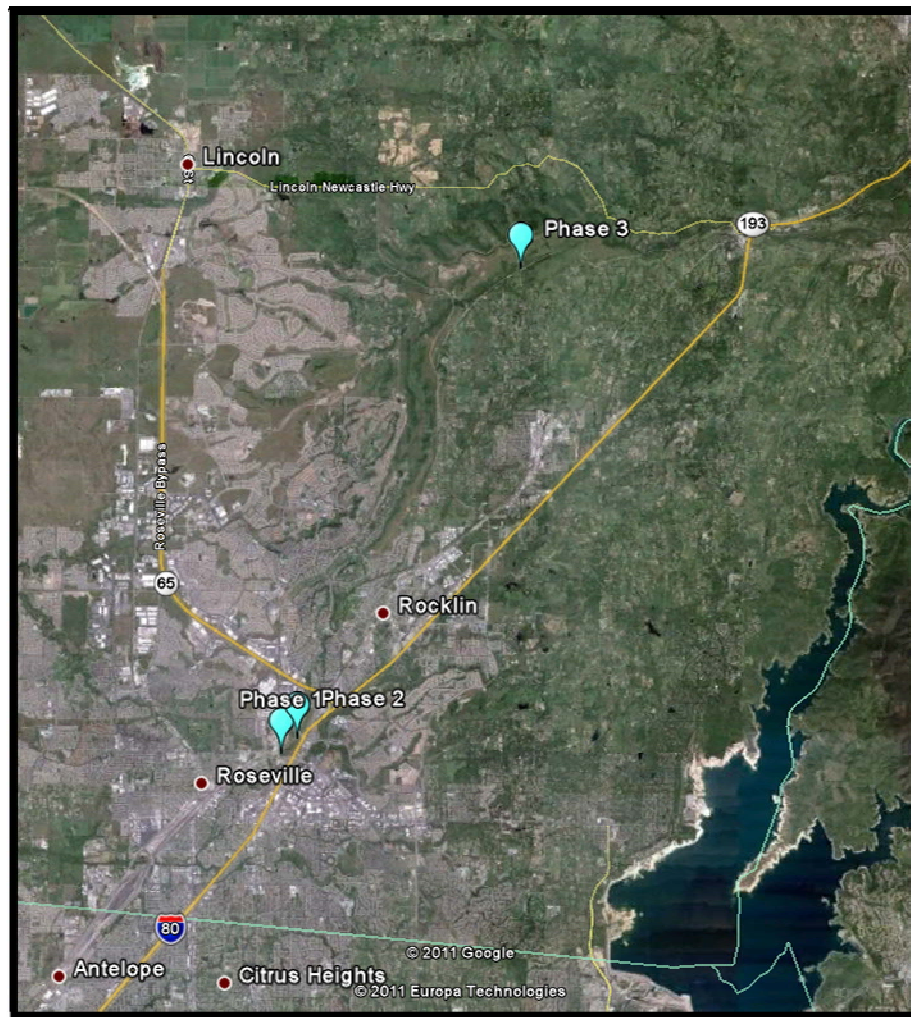


Figure 1: Location of the Three Phases of the Antelope Creek Improvement Project



Figure 2: Location of Phases One and Two of the Antelope Creek Improvement Project



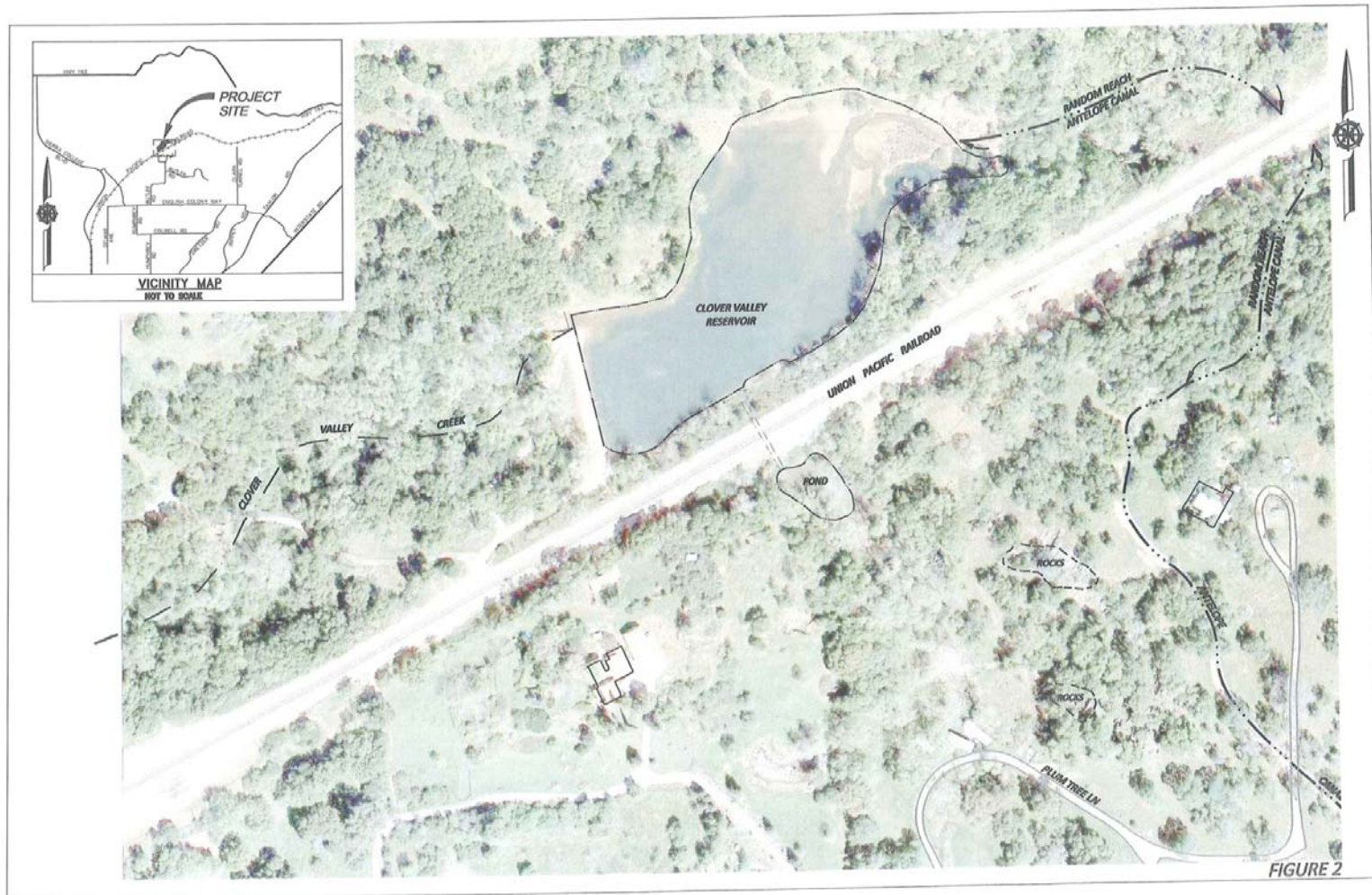


Figure 3: Location of Phase Three of the Antelope Creek Improvement Project

## Downtown Combined Sewer Upsizing Project

Proponent: City of Sacramento

Total Project Cost: \$13,109,359

Grant Funding Request: \$6,210,151

The Downtown Sewer Upsizing Project is a portion of the City of Sacramento's Combined Sewer System Improvement Program (CSSIP). The City has completed similar improvements downstream, and in conjunction with them, the Downtown Combined Sewer Upsizing Project will reduce combined system overflows (CSOs) to the Sacramento River and reduce flooding of combined stormwater runoff and sewage (termed "CSS outflows") in the downtown area of Sacramento. Thus, the project will meet multiple planning objectives: improve water quality in the Sacramento River (the source of drinking water for millions of Californians), reduce flood damage in the economically vital downtown area of Sacramento, and protect public health by reducing the likelihood and volume of diluted sewage on streets and properties.

The Downtown Sewer Upsizing Project was first conceived by City hydrologists in the 1990's to address the ongoing flooding problems in the Downtown area. Previously completed portions of the project include the U and S Street Parallel Sewer (completed in 2007) and replacement of existing combined sewer trunk mains with larger pipelines (upsizing) and constructing parallel pipelines in S Street, 5<sup>th</sup> Street and in the alley between J and K Streets (completed in 2010). These projects served to both increase conveyance to the Sump 1/1A complex, which had been improved in 1997, and reduced the hydraulic grade line in the vicinity of the improvements, including a vulnerable flooding location at 5<sup>th</sup> and U Streets. It also provided hydraulic improvements to reduce odors and improve pumping efficiency at Sump 1 and Sump 2.

To complete the Downtown Sewer Upsizing Project, it is necessary to continue the "upsizing" in 7<sup>th</sup> Street to connect with a section upstream that was constructed out of sequence due to timing constraints, and to extend this network of upsized pipes in L, G, F, and 8<sup>th</sup> Street. For the project to function properly, it is necessary that it be continuous, without bottleneck sections like currently exist. Once completed, the network of upsized and parallel pipes will serve to lower the hydraulic grade line in this portion of the City with critical and high value real estate that has experienced flooding of combined sewer outflows in the past. The Downtown Sewer Upsizing Project will replace existing pipelines with larger pipes, by paralleling the existing pipeline or by connecting new pipes to upsized portions, whichever approach is determined to be most practical. Replacing the pipelines has the added benefit of renewing pipes that have long since exceeded their useful lives. For example, the pipes in 7<sup>th</sup> Street and S Street are mostly constructed of clay bricks and were constructed in the 1890's. As such, they are not reliable and have been known to fail suddenly.

In addition to the benefits provided to the downtown Sacramento area due to reduced combined sewer overflows, the project will also benefit water suppliers utilizing Freeport Regional Water Authority's (FRWA) intake structure. As the FRWA intake facility is located three miles downstream of downtown Sacramento on the Sacramento River; any combined sewer overflows occurring in the City and entering

the river has direct significant negative impacts on the river's water quality and therefore affects water entering the FRWA intake structure.

*Project Benefits:*

- Reduce flood damage in the economically vital downtown area of Sacramento;
- Improve water quality in the Sacramento River through the reduction in raw sewage releases into the source of drinking water for millions of Californians; and
- Protect public health by reducing the likelihood and volume of diluted sewage on public streets and properties.
- Leverage existing funding by replacing aging infrastructure as part of project upsizing



City of Sacramento  
Department of Utilities  
**DOWNTOWN COMBINED SEWERS UPSIZING PROJECT**

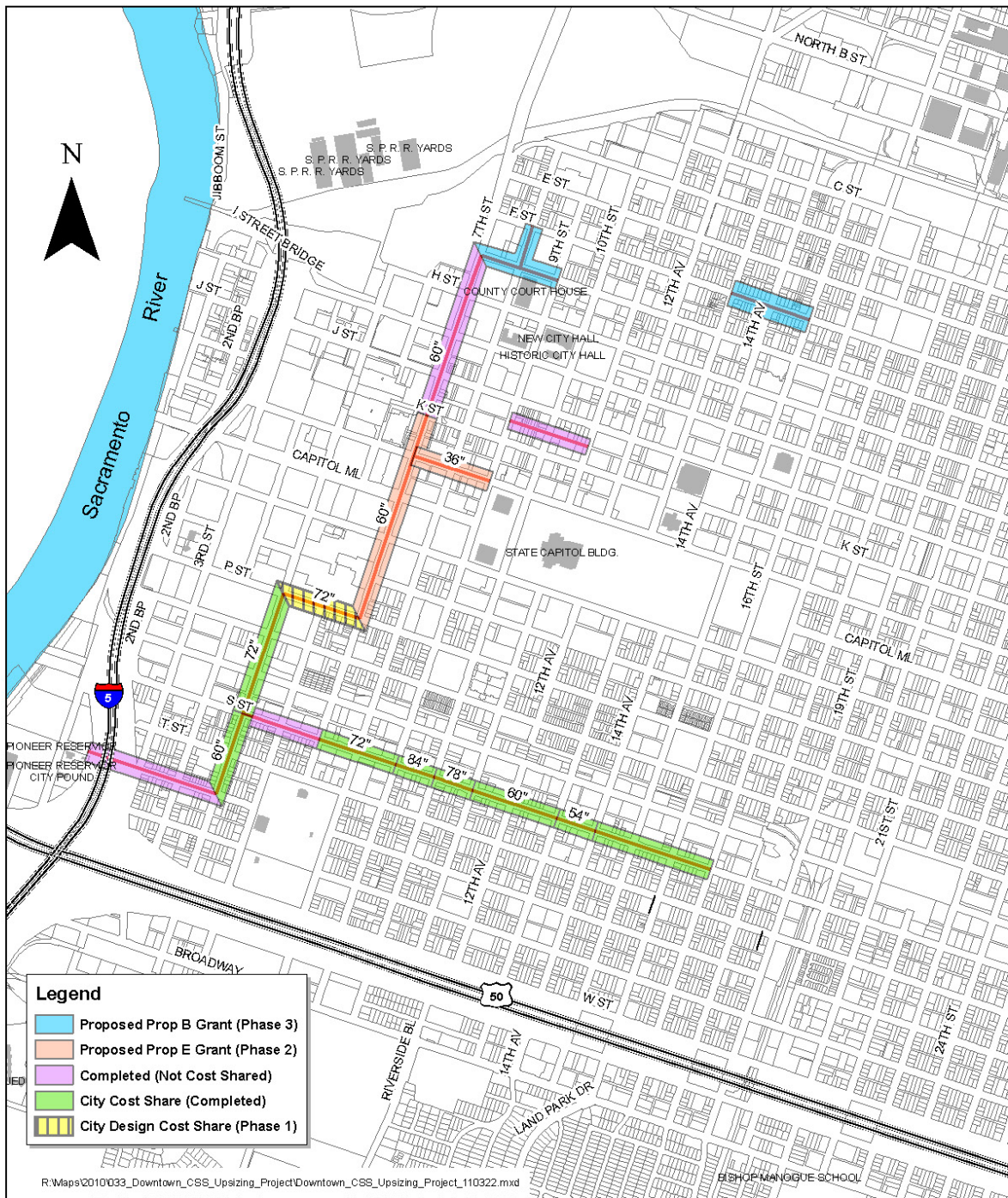


Figure 1: Location of Downtown Combined Sewer Upsizing Project

## Upper Unionhouse Creek Flood Protection Project

Proponent: Sacramento Area Flood Control Agency

Total Project Cost: \$1,953,546

Grant Funding Request: \$976,773

Unionhouse Creek, a tributary to Morrison Creek in the southern part of the City of Sacramento and in unincorporated Sacramento County, floods out of bank in 100-year and more frequent storms. An estimated 250 to 300 homes are in the 100-year floodplain. The proposed project seeks to keep 100-year flood flows within the channel from the confluence of Unionhouse and Strawberry Creek, downstream to Franklin Boulevard where the federal South Sacramento Streams Group (SSSG) project (Federal Project) will commence. The project will remove up to 300 homes from the floodplain, relieving the homeowners of the burden of flood insurance. The lower reach of Unionhouse Creek, below Franklin Boulevard has already been improved under the South Sacramento Streams Group (SSSG) project (Federal Project). The reach between Franklin Blvd and Center Parkway has been under study as a part of the SSSG, but the project would enable this reach to be removed from the Federal Project, keeping it out of the State Plan of Flood Control and avoiding state liability for its maintenance. The project will solve flooding issues in the project reach at a lower cost than could be achieved with the Federal Project, and by removing this reach from the Federal Project will leverage other federal, state and local funds for underfunded flood control needs elsewhere in the Morrison Creek watershed.

The Upper Unionhouse Flood Protection Project will address the existing flood risk along Unionhouse Creek by expanding the width and adjusting the depth of the existing channel between Franklin Boulevard and Bruceville Road. This project would significantly reduce the likelihood of overbank flooding in this portion of the creek and would provide at least a 100-year level of flood protection to the lands adjacent to the creek in this area thus removing between 250 and 300 homes from the regulated floodplain and relieving the homeowners of the burden of costly flood insurance. Additionally, the widening of Upper Unionhouse Creek will result in slower velocities in that reach and subsequently may decrease sedimentation, thus improving the water quality in the Unionhouse Creek and downstream reaches of Morrison Creek. Finally, the flood protection afforded by the Upper Unionhouse Creek Flood Protection Project will facilitate the development of a light rail extension project currently planned for the publically-owned corridor adjacent to Unionhouse Creek between Franklin Boulevard and Bruceville Road. This corridor currently contains Cosumnes River Boulevard, a two lane road that extends eastward from Franklin Boulevard to Highway 99. The Sacramento Regional Transit Authority (RT) has received Federal approval to extend light rail service though this corridor along the northern edge of the expanded roadway; however, the project cannot proceed until the flood control issues associated with Unionhouse Creek are resolved.

### *Project Benefits:*

- Reduce downstream flooding concerns by lessening flows downstream by providing increased stormwater passage.



- Reduce peak flows downstream of the project reach, eliminating the need for federal improvements in the project reach downstream, thus lessening the cost of the SSSG project and speeding overall flood damage mitigation improvements in the watershed.
- Improve instream water quality by slowing water velocities and allowing for the settling of suspended pollutants.
- Support development of the currently-threatened extension of light rail from downtown Sacramento to Cosumnes River College (a project which will reduce pollution and traffic congestion and contribute to sustainable development) by reducing potential flooding impacts to the project, allowing for transportation project funding and permitting.
- Resolve flooding issues in the Unionhouse Creek watershed, thereby leveraging funding and enabling the federal SSSG project to focus on downstream areas and those elsewhere in the Morrison Creek watershed.

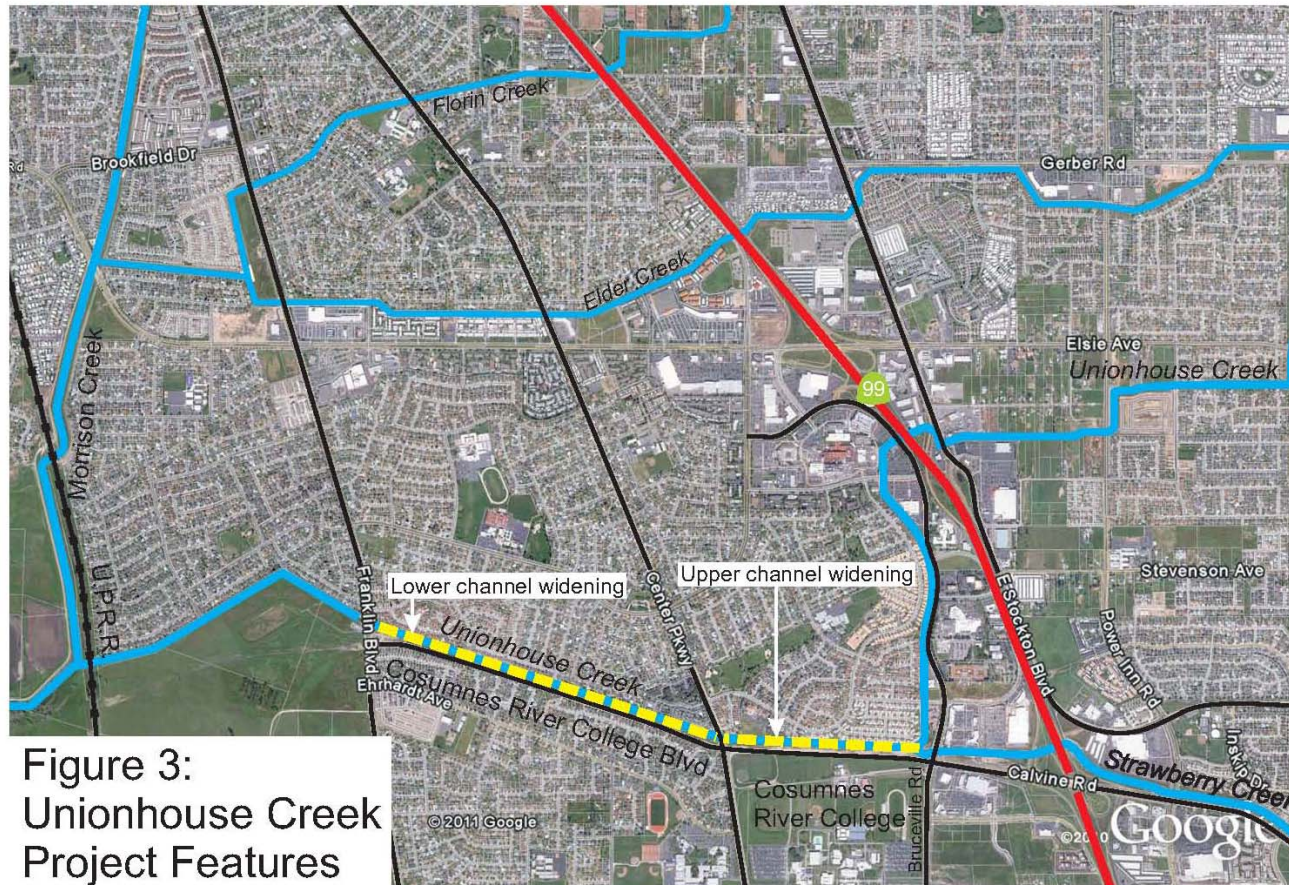


Figure 1: Location of Upper Unionhouse Creek Flood Protection Project